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HW 5.5 : Midpoint (Finding Endpoint)

Geometry

Due Date: Wednesday, Sept. 11th, 2013

**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

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| 1. Find the other endpoint of the line segment with the given endpoint and midpoint. | | 2. Find the other endpoint of the line segment with the given endpoint and midpoint. | |
| 3. The midpoint of *XZ* is *M*(1, 2). One endpoint is *X*(0, -2). Find the coordinates of endpoint *Z.* | | 4. The midpoint of *AB* is *M*(8,-8). One endpoint is  A(-4, 10). Find the coordinates of endpoint *B.* | |
| 5. Find the midpoint. | | 6. Find the midpoint. | |
| 7. On a particular line segment, points *Q*, *R*, and *S* are collinear, and R is between Q and S.   1. Draw the line segment. 2. If QR = 8 cm and RS = 13 cm, what is the measure of QS? 3. If *QS* = 31inches and RS = 7 inches, what is the measure of *QR*? | | 8. Choose the correct statement/statements.  Description: http://image.tutorvista.com/Qimages/QD/50234.gif   1. P, Q, R, U, and V are coplanar 2. U, V, N, and M are collinear 3. P, Q, R, T, and S are coplanar 4. M, N, T, S and P are coplanar 5. III and IV only 6. I and II only 7. I only 8. III only | |
| 9a) A line passes through the points (-3, 4) and (4, 1). What is the slope of this line?  Sketch the line: | | | 10a) Find the slope beween (8, 10) and (8, -2).  b) Sketch the line:  c) What do we call this kind of line? |
| 11. Reflection:  Tomas was uncertain about finding an endpoint given a midpoint and the other endpoint: Explain in your own words a method of finding this as basic as you can state it: | 12. Describe a scenario where knowing the midpoint but not exactly the other endpoint might present itself in your life and what knowing this information can do for you? | | |
| 13. Graph the coordinates of the two endpoints and find the midpoint:  [image]and | | | 14. Graph the coordinates of the two endpoints and find the midpoint:  and  [image] |